

LLNL Facility Screening Report (SCR) for B362

G.A. Cooper

September 24, 2007

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LLNL Facility Screening Report (SCR) for B-362 Facility Name					
Lead Preparer: Greg Cooper Date Performed: 8/28/2007					
Dead Treparer. Greg Cooper	161 61101 med. 6/26/2007				
Facility Descripti	on				
Briefly describe facility use, physical structure, location and attach a building layout: Building 362 (3,749 gross square feet) is a single-story concrete block structure with a built-up roof over steel joists. A boiler/chiller/electrical room is located in the West center portion of the building. B-362 is located near the center of the Laboratory at the corner of West Inner Loop Road and Fifth Street and is approximately 859 meters (2,818 feet) from the nearest site boundary. B-362 is houses laboratories supporting biological activities including the use of radiological tracers.					
Define facility type:	Owner Organization:				
Check: Single Structure or Area: (B/Tr/A) B-362 Complex of Buildings: Designation Segment* of Bldg or Complex: Seg.# *Attach justification for segmentation Final Facility Classification: (Check) Segnatures for Facility Classified as LSI**: Lead Preparer: Date: 8/30/07 AB Section Leader or designee: M. When Date: 8/30/07 ES&H Team Leader or designee: M. When Date: 9/30/07					
Approval Signature for Facility Classified as LSI**:					
Facility Management: 34 Cory	Date: 8/30/07				
Supporting Documentation Appended Co	mments:				
Check as appropriate: Justification for Segmentation Chemical Hazard List Radiological Hazard List Explosive Hazard List Building Layout ** Signatures are not required on this form for facilities classified as Low, Moderate or High. Approval signatures for these are on the cover of the Tier 2 or Tier 3 SBDs.					

Identification of Operations, Inventories, and Hazards						
List key operations	that are condu	cted within the facility:	:			
Research involving	analytical chemi	stry and microbiology.				
Work with small am	ounts of radioac	tive tracer elements (C-1	4 and tritium)			
	N	learby Facility threats?				
nearby LLNL facil	ities (>TEEL2 a	after mitigation)? yes	dible external threats from ☐ no ☐			
If yes, list the follow	ving for each no		D 1			
Source Facility:		Facility Contact(s):	Phone # (s):			
Describe hazard(s) a	associated with n	earby facility:				
	Ha	zard Identification Tab	ole			
Check the hazard types	s found in the facil	ity.				
Not Authorized	Authorized					
		Biological Hazards	Complete block I, below			
		Chemical Hazards	Complete block II, below			
\boxtimes		Explosive Hazards	Complete block III, below			
		Radiological Hazards	Complete block IV, below			
	\boxtimes	Industrial Hazards	Complete block V, below			

I.	Biological Hazards	II.	Chemical Hazards			
Check BioHazard Type			Check ChemHazard Type			
\boxtimes	Non-Select Agents	\boxtimes	Flammable, volatile or fuming			
_	Check highest group in facility:		Toxic materials (acutely toxic, toxic, bio-			
Г	RG1 Agents]	derived toxin, systemic toxin, toxic gases)			
5	RG2 Agents	\boxtimes	Corrosives/irritants			
Γ	RG3 Agents	\Box	Reactive materials (e.g., air/water sensitive;			
\Box	Select Agents		pyrophoric; thermally, shock, or friction			
ш	Select highest group in facility:		sensitive; perchlorate)			
Г	RG1 Agents	\boxtimes	Carcinogens, mutagens, reproductive			
ř	RG2 Agents		hazards			
Ī	RG3 Agents	\boxtimes	Pesticides			
L	_ KOJ Agents		Beryllium			
П	Other BioHazards (e.g., nucleic acid, lab animals,		Materials of special concern (e.g., alkali			
ш	contaminated needles/sharps, animal/human tissues &		metals, fluorine, asbestos, lead, mercury,			
	fluids)		PCB)			
П	Materials covered under OSHA Bloodborne Pathogens		Other regulated metals (e.g., chromium,			
ш	Standard - 29 CFR 1910.1030	_	copper, nickel, zinc)			
			Other:			
	Applicable Control Level for Biohazards	— Da an				
Check	highest Biological Safety Level (BSL) in facility, as applicable:	Do an	y chemicals exceed LSI classification? YES NO			
\square B	SL-1 SSL-2 BSL-3 and/or		_			
\Box B	oodborne Pathogens Standard (Note: AB classification = LSI)		hemicals that exceed LSI classification,			
_			n maximally planned chemical inventory			
		listing	J.			
III.	Explosive Hazards	IV.	Radiological Hazards			
III.	k	Check	Sum of Ratio			
	k Primary High Explosives		Sum of Ratio <1 of RQ thresholds (40 CFR 302.4			
	k Primary High Explosives Secondary High Explosives	Check	Sum of Ratio <1 of RQ thresholds (40 CFR 302.4 Appendix B)			
	k Primary High Explosives Secondary High Explosives Propellants/Low Explosives	Check	Sum of Ratio <1 of RQ thresholds (40 CFR 302.4 Appendix B) >1 of RQ thresholds < Cat. 3 Thresholds			
Chec	k Primary High Explosives Secondary High Explosives Propellants/Low Explosives Firearms Ammunition	Check	Sum of Ratio <1 of RQ thresholds (40 CFR 302.4 Appendix B) >1 of RQ thresholds < Cat. 3 Thresholds (DOE-STD-1027-92, Table A.1)			
Chec	Primary High Explosives Secondary High Explosives Propellants/Low Explosives Firearms Ammunition ny of the explosive types checked above have any of	Check	Sum of Ratio <1 of RQ thresholds (40 CFR 302.4 Appendix B) >1 of RQ thresholds < Cat. 3 Thresholds (DOE-STD-1027-92, Table A.1) >Cat. 3 Thresholds (DOE-STD-1027-92,			
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V. Industrial Hazards					
Check if hazard present	Industrial Hazard	Examples of industrial hazard(s) for each general category. (Select Industrial Hazards found.)		List industrial hazard(s) that could directly impact the public (fence-line) or colocated worker (100 m).	
	Electrical	☐ Battery banks, ☐ Cable runs, ☐ Diesel generators, ☐ Electrical equipment, ☐ Heaters, ☐ High voltage (> 600V), ☐ Motors, ☐ Power tools, ☐ Pumps, ☐ Service outlets, ☐ Fittings, ☐ Switchgear, ☐ Transformers, ☐ Capacitors, ☐ Magnetic fields, ☐ Transmission lines, ☐ Wiring/underground wiring, ☐ Other:		None	
	Thermal	 ☒ Boilers, ☒ Bunsen burner/hot plates, ☒ Electrical equipment, ☒ Electrical wiring, ☐ Engine exhaust, ☐ Furnaces, ☐ Heaters, ☐ Lasers, ☐ Steam lines, ☐ Welding surfaces, ☐ Welding torch, ☐ other:_ 		None	
	Kinetic	□ Acceleration/deceleration, ⋈ Bearings, ⋈ Belts, ⋈ Carts/dollies, ⋈ Centrifuges, □ Crane loads (in motion), ⋈ Drills, ⋈ Fans, □ Firearm discharge, □ Fork lifts, □ Gears, □ Grinders, ⋈ Motors, □ Power tools, □ Presses/shears, □ Saws, □ Vehicles, □ Airplane, □ Vibration, □ Other: □		None	
	Potential (pressure)	☐ Autoclaves, ☐ Boilers, ☐ Coiled springs, ☐ Furnaces, ☐ Gas bottles, ☐ Gas receivers, ☐ Pressure vessels, ☐ Vacuum vessels, ☐ Pressurized system (e.g., air), ☐ Steam header and lines, ☐ Stressed members, ☐ Other:_		None	
	Potential (height/mass)	☐ Cranes/hoists, ☐ Elevated doors, ☐ Elevated work surfaces, ☐ Elevators, ☐ Lifts, ☐ Loading docks, ☐ Mezzanines, ☐ Floor pits, ☒ Scaffolds and ladders, ☐ Stacked material, ☐ Stairs, ☐ Other:		None	
	Internal Flooding Sources	☑ Domestic water, ☑ Fire suppression piping,☑ Process water, ☐ Other:		None	
Hazard Classification					
Select the appropriate hazard level from the dropdown menu:					
Biological LSI					
Chemical		LSI			
Explosive			Not authorized		
	cal materials		LSI		
Radiation generators		Not authorized			
Industrial		LSI			

Controls for LSI Hazards: (Controls for Low, Moderate and High hazards are addressed in Tier 2 or Tier 3 SBDs.)

Briefly describe controls developed to assure that facility operations do not exceed the facility classification:

- 1. Biological operations will be limited to those that can be performed at BSL-2 controls or less. All biological activities shall be reviewed via the IWS process and the LBOC prior to starting.
- 2. Inventories of individual chemicals shall be maintained below the lesser of the Q-values Q1 at 100 meters or Q0 at 600 meters.
- 3. CMLS manages its programmatic inventory of radiological materials to maintain and comply with a Facility Safety Basis Envelope (SBE) of LSI for B362. A Radioactive Materials Inventory System is maintained by facility management. It is reconciled as frequently as necessary to ensure that the facility radiological inventory remains below the Final RQ limits in 40 CFR 302.4 Appendix B on a cumulative sum-of-the-ratios basis for all isotopes. Inventory reconciliation more frequent than annual shall be performed if the inventory exceeds an administrative control level of 75% of the RQ limits. Prior to receipt, additions are verified not to cause the radiological inventory to exceed the RQ limits. Additions not fully characterized are estimated using field measurements and owner knowledge.
- 4. Industrial hazards are managed by facility management at the LSI level.

Other controls? Briefly describe:	
None	

List what document(s) through which the controls will be implemented:

CMLS-332, "Chemical Management Plan". CMLS-406, "Radioactive Materials Inventory Management Plan". Individual Integration Worksheets (IWSs).

B362 RADIOLOGICAL INVENTORY

Nuclide	Initial Quantity [activity or mass]	Units	Initial Activity [Ci]	Reference Date	Specific Activity [Ci/g]	Halflife [sec]	Decay Corrected Activity [Ci]	Final RQ [Ci]	RQ Fraction	Cat III Threshold [Ci]	Cat III Fraction
C-14	1.86E+04	uCi	1.86E-02	04/11/07	4.46E+00	1.81E+11	1.86E-02	10	1.86E-03	4.20E+02	4.44E-05
H-3	1.17E+04	uCi	1.17E-02	04/11/07	9.65E+03	3.90E+08	1.15E-02	100	1.15E-04	1.00E+03	1.15E-05
I-129	1.00E+00	uCi	1.00E-06	04/11/07	1.77E-04	4.95E+14	1.00E-06	0.001	1.00E-03	6.00E-02	1.67E-05

			Cat III
Nuclide	Decay Corrected Activity [Ci]	RQ Fraction	Fraction
C-14	1.86E-02	1.86E-03	4.44E-05
H-3	1.15E-02	1.15E-04	1.15E-05
I-129	1.00E-06	1.00E-03	1.67E-05
Grand			
Total	3.01E-02	2.98E-03	7.25E-05

Inventory table represents the typical types and quantities of nuclides used within this facility, the exact types and quantities may change somewhat over time, however, total nuclide inventory will be maintained within LSI classification limits

